



>>Entry Name: **Aluminium acetate**, USAN

Synonym(s): Aluminium ethanoate. Acetic acid, aluminium salt (3:1)

CAS Registry Number: 139-12-8

$\text{Al}(\text{OAc})_3$

Molecular Formula: $\text{C}_6\text{H}_9\text{AlO}_6$

Molecular Weight: 204.115

Accurate Mass: 204.021454

Percentage Composition: C 35.31%; H 4.44%; Al 13.22%; O 47.03%

Source/Synthesis: Synth. from AlCl_3 and glacial AcOH or from Al, AcOH + Ac_2O

Use/Importance: Antiseptic, mordant, astringent. Dermatological agent. Recommended for treatment of otorrhoea (cf. conventional topical antibiotic)

Physical Description: V. hygroscopic white solid (AcOH)

Solubility: Sol. H_2O ; spar. sol. Me_2CO

Other Data: Range of similar tricarboxylates descr.

References:

Hood, G.C. *et al.*, *J.A.C.S.*, 1950, **72**, 2094

Mehrotra, R.C. *et al.*, *J. Inorg. Nucl. Chem.*, 1956, **2**, 60

Pande, K.C. *et al.*, *Z. Anorg. Allg. Chem.*, 1956, **286**, 2989, (*synth, related compds*)

Mehrotra, R.C. *et al.*, *Metal Carboxylates*, Academic Press, London, 1983

Clayton, M.I. *et al.*, *Clin. Otorhinolaryngol.*, 1990, **15**, 7, (*use*)

Martindale, *The Extra Pharmacopoeia*, 30th edn., Pharmaceutical Press, 1993, 1335